Marek Z Reformat

List of Publications by Year
in descending order

126 papers	2,140 citations	304368 22 h-index	253896 43 g-index
135 all docs	135 docs citations	135 times ranked	1582 citing authors

#	Article	IF	Citations
1	Genetic learning of fuzzy cognitive maps. Fuzzy Sets and Systems, 2005, 153, 371-401.	1.6	416
2	Wind power forecasting using attention-based gated recurrent unit network. Energy, 2020, 196, 117081.	4.5	176
3	Choquet based TOPSIS and TODIM for dynamic and heterogeneous decision making with criteria interaction. Information Sciences, 2017, 408, 41-69.	4.0	116
4	Immune programming. Information Sciences, 2006, 176, 972-1002.	4.0	91
5	Evolutionary fuzzy modeling. IEEE Transactions on Fuzzy Systems, 2003, 11, 652-665.	6.5	71
6	Local descriptors in application to the aging problem in face recognition. Pattern Recognition, 2013, 46, 2634-2646.	5.1	68
7	Automatic test data generation using genetic algorithm and program dependence graphs. Information and Software Technology, 2006, 48, 586-605.	3.0	63
8	Software cost estimation with fuzzy models. ACM SIGAPP Applied Computing Review: A Publication of the Special Interest Group on Applied Computing, 2000, 8, 24-29.	0.5	62
9	Suggesting Recommendations Using Pythagorean Fuzzy Sets illustrated Using Netflix Movie Data. Communications in Computer and Information Science, 2014, , 546-556.	0.4	58
10	Empirical evaluation of optimization algorithms when used in goal-oriented automated test data generation techniques. Empirical Software Engineering, 2007, 12, 183-239.	3.0	50
11	Ontological approach to development of computing with words based systems. International Journal of Approximate Reasoning, 2009, 50, 72-91.	1.9	49
12	Using a web Personal Evaluation Tool â€" PET for lexicographic multi-criteria service selection. Knowledge-Based Systems, 2011, 24, 929-942.	4.0	45
13	Local descriptors and similarity measures for frontal face recognition: A comparative analysis. Journal of Visual Communication and Image Representation, 2013, 24, 1213-1231.	1.7	43
14	Genetic algorithms for hardwareâ€"software partitioning and optimal resource allocation. Journal of Systems Architecture, 2007, 53, 339-354.	2.5	38
15	Application of genetic algorithms to pattern recognition of defects in GIS. IEEE Transactions on Dielectrics and Electrical Insulation, 2000, 7, 161-168.	1.8	36
16	Learning fuzzy cognitive maps with required precision using genetic algorithm approach. Electronics Letters, 2004, 40, 1519.	0.5	31
17	Rule-based modeling of nonlinear relationships. IEEE Transactions on Fuzzy Systems, 1997, 5, 256-269.	6.5	30
18	Software quality analysis with the use of computational intelligence. Information and Software Technology, 2003, 45, 405-417.	3.0	30

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19	A tree-projection-based algorithm for multi-label recurrent-item associative-classification rule generation. Data and Knowledge Engineering, 2008, 64, 171-197.	2.1	29
20	A study in facial regions saliency: a fuzzy measure approach. Soft Computing, 2014, 18, 379-391.	2.1	29
21	Building ensemble classifiers using belief functions and OWA operators. Soft Computing, 2008, 12, 543-558.	2.1	28
22	Genetically optimized logic models. Fuzzy Sets and Systems, 2005, 150, 351-371.	1.6	27
23	Hierarchical FCM in a stepwise discovery of structure in data. Soft Computing, 2006, 10, 244-256.	2.1	22
24	A practical approach to testing GUI systems. Empirical Software Engineering, 2007, 12, 331-357.	3.0	22
25	Assessment of semantic similarity of concepts defined in ontology. Information Sciences, 2013, 250, 21-39.	4.0	22
26	Looking for Like-Minded Individuals in Social Networks Using Tagging and E Fuzzy Sets. IEEE Transactions on Fuzzy Systems, 2013, 21, 672-687.	6.5	21
27	Drawing on the iPad to input fuzzy sets with an application to linguistic data science. Information Sciences, 2019, 479, 277-291.	4.0	21
28	Cascade Architectures of Fuzzy Neural Networks. Fuzzy Optimization and Decision Making, 2004, 3, 5-37.	3.4	20
29	A practical method for the software fault-prediction. , 2007, , .		18
30	Multilabel associative classification categorization of MEDLINE aticles into MeSH keywords. IEEE Engineering in Medicine and Biology Magazine, 2007, 26, 47-55.	1.1	18
31	OR/AND neurons and the development of interpretable logic models. IEEE Transactions on Neural Networks, 2006, 17, 636-658.	4.8	17
32	Collective Perception in Smart Tourism Destinations with Rough Sets. , 2017, , .		17
33	WebPET: An Online Tool for Lexicographic Decision Making. IEEE Intelligent Systems, 2010, 25, 76-83.	4.0	16
34	A Support Vector Regression Based Model Predictive Control for Volt-Var Optimization of Distribution Systems. IEEE Access, 2019, 7, 93352-93363.	2.6	16
35	Aggregation of classifiers based on image transformations in biometric face recognition. Machine Vision and Applications, 2008, 19, 125-140.	1.7	15
36	Context-aware similarity assessment within semantic space formed in linked data. Journal of Ambient Intelligence and Humanized Computing, 2013, 4, 515-532.	3.3	15

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37	Collective awareness in Smart City with Fuzzy Cognitive Maps and Fuzzy sets. , 2016, , .		15
38	An Environment for Collective Perception based on Fuzzy and Semantic Approaches. Journal of Artificial Intelligence and Soft Computing Research, 2018, 8, 191-210.	3.5	14
39	Building a software experience factory using granular-based models. Fuzzy Sets and Systems, 2004, 145, 111-139.	1.6	12
40	A fuzzy-based multimodel system for reasoning about the number of software defects. International Journal of Intelligent Systems, 2005, 20, 1093-1115.	3.3	11
41	Classification of Cell Membrane Proteins. , 2007, , .		11
42	Evolutionary Reduction of Fuzzy Rule-Based Models. Studies in Fuzziness and Soft Computing, 2015, , 459-481.	0.6	11
43	Learning Categories from Linked Open Data. Communications in Computer and Information Science, 2014, , 396-405.	0.4	10
44	FML-Based Reinforcement Learning Agent with Fuzzy Ontology for Human-Robot Cooperative Edutainment. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2020, 28, 1023-1060.	0.9	10
45	Machine learning in the life sciences. IEEE Engineering in Medicine and Biology Magazine, 2007, 26, 14-16.	1.1	8
46	Deterioration of visual information in face classification using Eigenfaces and Fisherfaces. Machine Vision and Applications, 2006, 17, 68-82.	1.7	7
47	Fuzzy Linear regression based on approximate Bayesian computation. Applied Soft Computing Journal, 2020, 97, 106763.	4.1	7
48	On the possibilities of (pseudo-) software cloning from external interactions. Soft Computing, 2007, 12, 29-49.	2.1	6
49	Updating user profile using ontology-based semantic similarity. , 2009, , .		6
50	Tag-based fuzzy sets for criteria evaluation in on-line selection processes. Journal of Ambient Intelligence and Humanized Computing, 2011, 2, 35-51.	3.3	6
51	T2R: System for Converting Textual Documents into RDF Triples. , 2013, , .		6
52	A FML-based hybrid reasoner combining fuzzy ontology and Mamdani inference. , 2013, , .		6
53	Extending FML with evolving capabilities through a scripting language approach. , 2014, , .		6
54	Composition-based Users' matching processes with pythagorean fuzzy sets. , 2017, , .		6

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55	GridKG: Knowledge Graph Representation of Distribution Grid Data. , 2020, , .		6
56	Selecting an action to satisfy multiple aspects of a system based on uncertain granular observations. Expert Systems With Applications, 2019, 126, 1-8.	4.4	5
57	Computational Intelligence in Modeling Complex Systems and Solving Complex Problems. Complexity, 2019, 2019, 1-6.	0.9	5
58	A Simple Method for Inducing Class Taxonomies in Knowledge Graphs. Lecture Notes in Computer Science, 2020, , 53-68.	1.0	5
59	A schema for ontology-based concept definition and identification. International Journal of Computer Applications in Technology, 2010, 38, 333.	0.3	4
60	Fuzziness, OWA and linguistic quantifiers for web selection processes. , 2011, , .		4
61	Feature-based similarity assessment in ontology using fuzzy set theory. , 2012, , .		4
62	Fuzzy semantic similarity in linked data using the OWA operator. , 2012, , .		4
63	Using tagging in social networks to find groups of compatible users. , 2013, , .		4
64	Modelling of Experienced-Based Data in Linked Data Environment. , 2014, , .		4
65	Application of Granular Computing and Three-way decisions to Analysis of Competing Hypotheses. , 2016, , .		4
66	Knowledge Graphs, Category Theory and Signatures. , 2018, , .		4
67	Human-inspired Identification of High-level Concepts using OWA and Linguistic Quantifiers. International Journal of Computers, Communications and Control, 2014, 6, 473.	1.2	4
68	Participatory Learning in Linked Open Data. , 0, , .		4
69	Question-Answering System with Linguistic Terms over RDF Knowledge Graphs. , 2020, , .		4
70	Convolutional Neural Network to Segment Laminae on 3D Ultrasound Spinal Images to Assist Cobb Angle Measurement. Annals of Biomedical Engineering, 2022, 50, 401-412.	1.3	4
71	Using fuzzy sets to model information provided by social tagging. , 2010, , .		3
72	Ontology-based framework for reasoning with fuzzy temporal data. , 2012, , .		3

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73	Combining Fuzzy Ontology Reasoning and Mamdani Fuzzy Inference System with HyFOM Reasoner. Lecture Notes in Business Information Processing, 2014, , 174-189.	0.8	3
74	Constructing Topos from RDF Data. , 2015, , .		3
75	Similarity-based method for reduction of fuzzy rules. , 2016, , .		3
76	Electrical Equipment Identification Method With Synthetic Data Using Edge-Oriented Generative Adversarial Network. IEEE Access, 2020, 8, 136487-136497.	2.6	3
77	xGENIA: A comprehensive OWL ontology based on the GENIA corpus. Bioinformation, 2007, 1, 360-362.	0.2	3
78	Rule-based models of multivariable functions. Fuzzy Sets and Systems, 1997, 90, 235-253.	1.6	2
79	Analytic Hierarchy Process and granularity: Assessment of risk severity on livestock wellness. , 2012, , .		2
80	Analysis and design of rank-based classifiers. Expert Systems With Applications, 2013, 40, 3256-3265.	4.4	2
81	Soft Computing Techniques for Querying XBRL Data. Intelligent Systems in Accounting, Finance and Management, 2015, 22, 179-199.	2.8	2
82	Learning Processes Based on Data Sources with Certainty Levels in Linked Open Data. , 2016, , .		2
83	Validation and implementation of fuzzy models using FML-based specifications. , 2016, , .		2
84	LORI: Linguistically Oriented RDF Interface for Querying Fuzzy Temporal Data. Advances in Intelligent Systems and Computing, 2016, , 337-352.	0.5	2
85	Question-Answering System with Linguistic Summarization. , 2021, , .		2
86	Assimilation of Information in RDF-Based Knowledge Base. Communications in Computer and Information Science, 2012, , 191-200.	0.4	2
87	Evolutionary Optimization of Fuzzy Models. Studies in Fuzziness and Soft Computing, 2002, , 168-203.	0.6	2
88	Fragmentation Coagulation Based Mixed Membership Stochastic Blockmodel. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 6704-6711.	3.6	2
89	Adaptive Fuzzy Neural Agent for Human and Machine Co-learning. International Journal of Fuzzy Systems, 2022, 24, 778-798.	2.3	2
90	Applying a Convolutional Neural Network Based Iterative Algorithm to Automatically Measure Spinal Curvature on Radiographs for Children with Scoliosis. Journal of Medical and Biological Engineering, 2022, 42, 388-396.	1.0	2

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91	Software Maintenance: Similarity and Inclusion of Rules in Knowledge Extraction. , 2006, , .		1
92	Ontology Enhanced Concept Hierarchies for Text Identification. International Journal on Semantic Web and Information Systems, 2008, 4, 16-43.	2.2	1
93	Determining Affinity of Users in Social Networks Using Fuzzy Sets. Communications in Computer and Information Science, 2012, , 149-160.	0.4	1
94	Interval-based analysis of BOCR (benefits, opportunities, costs and risks) models evaluated by multiple experts. , 2013, , .		1
95	Fuzzy semantic similarity in linked data using wikipedia infobox. , 2013, , .		1
96	Querying RDF Data with Imprecise Time Phrases. , 2015, , .		1
97	Estimating Harvestable Solar Energy from Atmospheric Pressure Using Support Vector Regression. , 2015, , .		1
98	Linked Opened Data: Conjunctive information and participatory learning process. , 2016, , .		1
99	Feature-driven linguistic-based entity matching in linked data with application in pharmacy. Soft Computing, 2017, 21, 353-368.	2.1	1
100	Defining personalized concepts for XBRL using iPAD-drawn fuzzy sets. Intelligent Systems in Accounting, Finance and Management, 2018, 25, 73-85.	2.8	1
101	Link Prediction in Signed Social Networks using Fuzzy Signature. , 2019, , .		1
102	Tagging and Fuzzy Sets. Studies in Computational Intelligence, 2010, , 1-17.	0.7	1
103	Dynamic Analysis of Participatory Learning in Linked Open Data: Certainty and Adaptation. Communications in Computer and Information Science, 2016, , 667-677.	0.4	1
104	Deep Dynamic Mixed Membership Stochastic Blockmodel. , 2019, , .		1
105	Predicting Weather-related Power Outages in Distribution Grid. , 2020, , .		1
106	Image-Based World-perceiving Knowledge Graph (WpKG) with Imprecision. Communications in Computer and Information Science, 2020, , 415-428.	0.4	1
107	Relation Extraction with Sentence Simplification Process and Entity Information. , 2021, , .		1
108	Protoforms and Category Theory. , 2006, , .		0

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109	Ontology-Enhanced Computing with Words. , 2006, , .		0
110	An Optimization of ac-cuts of Fuzzy Sets Through Particle Swarm Optimization. , 2006, , .		0
111	Introduction to the special issue on: â€œSoftware Quality Improvements and Estimations with Intelligence-based Methodsâ€•. Software Quality Journal, 2007, 15, 237-240.	1.4	0
112	Message from NAFIPS general chairs. , 2012, , .		0
113	Soft Computing for Intelligent Web. International Journal of Intelligent Systems, 2013, 28, 1-3.	3.3	0
114	Special section: Applications of computational intelligence and machine learning to software engineering. Information Sciences, 2014, 259, 393-395.	4.0	0
115	Fuzziness and Ontology in Personalization of Selection Processes in the Semantic Web. , 2014, , .		0
116	Fuzzy-Based Mechanisms for Selection and Recommendation Processes. Studies in Fuzziness and Soft Computing, 2016, , 197-220.	0.6	0
117	Ensemble of active contour based image segmentation. , 2017, , .		0
118	Generation and Reduction of Fuzzy Sets with PG-Means and Fuzzy Similarity Measures. Studies in Computational Intelligence, 2018, , 287-307.	0.7	0
119	Multi-level Processing of Sensory Data with Evidence Theory. , 2018, , .		0
120	OWA-based Summarization of Data using iPad-drawn Concepts. , 2019, , .		0
121	Neural Blockmodeling for Multilayer Networks. , 2021, , .		0
122	Intelligent Analysis of Software Maintenance Data. , 2007, , 14-51.		0
123	Ontology Driven Document Identification in Semantic Web. Advances in Semantic Web and Information Systems Series, 2010, , 186-220.	0.0	0
124	The Web, Similarity, and Fuzziness. Studies in Fuzziness and Soft Computing, 2015, , 519-536.	0.6	0
125	Clustering of Propositions Equipped with Uncertainty. Communications in Computer and Information Science, 2018, , 715-726.	0.4	0
126	Semantic Web: Graphs, Imprecision andÂKnowledge Generation. Studies in Fuzziness and Soft Computing, 2021, , 271-283.	0.6	0